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b. VHF Coded Switches: A total of 400 major components of this system were manufactured by [redacted] under an R&D contract monitored by APD. [redacted] in cooperation with ASD, undertook the preliminary inspection of these units to ascertain that all were in working condition. 23% of the units were found non-operational. These were again checked over, and all those which could be easily repaired (loose connections, wrong color coding, etc.) were put in operating condition. This left 9% of the units in non-working condition, all of which will be returned to [redacted] by APD. The unit itself will now undergo T&E, largely as a cooperative venture of SDU and [redacted]. In addition, [redacted] has arranged a test to determine extent of possible accidental triggering, utilizing [redacted].

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c. Mylar Tape (for tape recorders): Request has been received from APD to evaluate 3 types of Mylar tapes which Logistics is planning to stock in quantity. An official Navy spec is furnished as the guide and concerns itself with strength, uniformity, and audio qualities.

#### 4. T&E Projects - Requested but not yet started

a. Microphone Study: APD has recently supplied two types of transistorized microphones to the T&E program with the request that they be analyzed. At the same time, ASD has requested a T&E of all the microphones commonly used by them in audio installations and has supplied examples of each. We anticipate starting work on this project shortly, combining all types into a statistically designed experiment. Accent will be placed on intelligibility, coupled with resistance to temperature, humidity, and shock, as criteria.

b. ST-2 Transmitter: ASD has requested that the ST-2 transmitter (which is currently undergoing further modification by the contractor) be thoroughly evaluated under operating conditions. Whereas a pending operation will entail the use of this transmitter in a system to be built and tested [redacted] an opportunity will be presented to perform the jobs concurrently.

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c. K-20 Aerial Cameras (modified): PSD has requested that these cameras, which were modified by an APD contractor for a since abandoned project, be tested and evaluated as to use. They are essentially the K-20 camera but with additional recording for altitude and direction incorporated. A study is being made of their construction and the direction of a T&E program will be forthcoming shortly.

#### d. Miniature

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d. Miniature Portable Recorders: ASD has requested that a survey of all available commercial models be made and that the most promising prospects be T&E'd to determine their strong and weak points. ASD is particularly interested in the Minifon and the Dictet, both of which are in operational use. We anticipate that this project will be the first to be delivered into the hands of a [ ] contractor.

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e. Mosler Pocket Transmitter, Model PT-6C: ASD has requested an operational T&E of this newly-developed commercial model. We anticipate that the program will be carried out at TEL.

f. Battery-operated Soldering Iron: ASD has requested that this TEL developed item be tested and evaluated. As such, this will also be sent out to a [ ] contractor.

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5. [ ]

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a. [ ]

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As it is presently organized, this will be the center of activities for the T&E program. Some of the equipment, especially that of a more sensitive nature, will be evaluated here. However, there is a severe shortage of personnel and it will be impossible in the foreseeable future to handle anywhere near even a major portion of the work. All decisions as to T&E procedure, however, will continue to be made by TEL personnel.

b. [ ]

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A basic contract with this firm is being initiated so that they may be used in the T&E program. This is especially true in electronics where they appear to have the capacity and inclination to carry on a good deal of practical T&E work.

c. [ ]

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A contract is being initiated to use this organization to perform T&E on a wide variety of items. Although they appear to have capabilities "across the board," they would appear to be most valuable as a cutout in performing routine T&E through a number of commercial testing firms.

d. [ ]

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Contacts in this organization are now being cleared for possible use in the T&E program. Their literature indicates a wide variety of environmental test equipment, excellent facilities in electronics and a desire to do work along the lines of our program.

e. Some preliminary

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c. Some preliminary talks have been initiated with [redacted]  
[redacted] However, whereas they would be interested in performing TSS work only so long as the Agency supplied ALL the equipment for doing so, it is not my recommendation that they be utilized in the program. This is especially true when other reliable organizations are available to do the same work and who will also utilize their own equipment.

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[redacted]  
Deputy Chief  
Technical Services Laboratory, TSS

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